

ACKNOWLEDGMENT OF COMPLETION REPORT

FOR

**EMCHEM CORPORATION GLYCOL SPILL
4301 RICE DRIER ROAD
PEARLAND, BRAZORIA COUNTY, TEXAS**

Prepared for

U.S. Environmental Protection Agency

Linda Carter, Project Officer
1445 Ross Avenue
Dallas, Texas 75202

Contract No. EP-W-06-042
TDD No. TO-0001-11-10-02
WESTON W.O. No. 20406.012.001.0682.01
NRC No. 992154
FPN N/A
CERCLIS ID TXD0980750624
EPA OSC: John Martin
START-3 PTL: Derrick Cobb

Submitted by

Weston Solutions, Inc.

Robert Beck, VP, P.E., Program Manager
70 NE Loop 410, Suite 600
San Antonio, Texas 78216
(210) 308-4300

06 January 2012

ACKNOWLEDGMENT OF COMPLETION REPORT

1. PROJECT IDENTIFICATION

Date: 06 January 2012

To: John Martin, On-scene Coordinator (OSC)
U.S. Environmental Protection Agency (EPA)
Region 6, Prevention and Response Branch

Through: Linda Carter, Project Officer (PO)
EPA Region 6, Program Management Branch

Through: Robert Beck, VP, P.E., Weston Solutions, Inc. (WESTON®)
EPA Region 6, Superfund Technical Assessment and Response Team (START-3)
Program Manager

From: Derrick Cobb, WESTON
EPA Region 6, START-3 Project Team Leader

Subject: Acknowledgment of Completion Report: Emchem Corporation Glycol Spill
4301 Rice Drier Road, Pearland, Brazoria County, Texas
Contract No. EP-W-06-042
TDD No. TO-0001-11-10-02
W.O. No. 20406.012.001.0682.01
NRC No. 992154
FPN N/A
CERCLIS ID TXD0980750624
Latitude 29.5753316° North
Longitude 95.2898488° West

Geographic coordinates of the Emchem Corporation Glycol Spill site were determined by START-3 members using an online tool, Google Earth®. The Comprehensive Environmental Response, Compensation, and Liability Information System (CERCLIS) identification number for the site is CERCLIS ID TXD0980750624. Texas Commission on Environmental Quality (TCEQ) contacted The National Response Center (NRC Report No. 992154) concerning a triethylene glycol spill at the Emchem Corporation facility. No Federal Pollution Number (FPN) number was issued for this Technical Direction Document (TDD).

2. BACKGROUND INFORMATION

On 10 October 2011 at approximately 23:30 hours, TCEQ contacted the NRC concerning a release of triethylene glycol from the abandoned Emchem Corporation facility located at 4301 Rice Drier Road, Pearland, Brazoria County, Texas. TCEQ reported an uncontrolled release of approximately 3 to 4 gallons-per-minute of the contents from a damaged valve on an aboveground storage tank (AST) having very little to no secondary containment. The drainage pathway for the released material would have allowed the product to migrate to a nearby tributary of Clear Creek that flows downstream and empties into Clear Lake.

Based on initial assessments conducted by TCEQ, the cause of the release is believed to be the result of uneven tank settling due to soft saturated ground complicated by rain on 9 October 2011. Three other 18,000-gallon ASTs have also experienced uneven settling causing concern for the overall structural integrity of those tanks.

3. SUMMARY OF ACTIONS

On 10 October 2011 at approximately 23:30 hours, START-3 and the Emergency and Rapid Response Services (ERRS) Contractor mobilized to the site. Upon arrival, START-3 and ERRS met with the TCEQ representatives on-site. TCEQ had mobilized its Emergency Response Contractor (Oil Mop) to respond to the site to stabilize the release and prevent additional off-site migration. TCEQ was concerned about the volume of product stored in the leaking AST as well as the overall structural integrity of the three other ASTs. Based on these concerns, EPA assumed the lead role in the response effort and tasked ERRS to mobilize the necessary resources to respond to the release.

On 11 October 2011 at approximately 06:00 hours, the ERRS crew arrived on-site and transitioned the response effort with the existing TCEQ contractor. ERRS continued to recover product from the leaking AST and remove free product from the ground. ERRS used a vacuum truck to off-load the contents from the leaking AST and from the other three ASTs with questionable structural integrity. The removed product was transferred into frac tanks for temporary storage until an approved disposal facility could be identified. ERRS utilized a vacuum truck to remove free standing product from the ground when possible. The remaining

product was removed utilizing sorbent pads. ERRS transferred approximately 21,000 gallons of product from the four ASTs.

On 12 October 2011, START-3 and ERRS demobilized from the site until transportation and disposal of the collected product could be arranged for the recovered product.

On 21 November 2011 EPA, START-3, and ERRS remobilized to the site for off-site transportation and disposal of the product stored in the frac tanks and demobilization of equipment. Approximately 21,000 gallons of product and decontamination fluids were transported off-site by Philip Services Corporation (PSC) to Phillip Reclamation Services Houston, LLC located in Houston, Texas. Waste manifests are provided as Attachment F. The frac tanks were demobilized after decontamination. EPA, START-3, and ERRS completed response activities and demobilized from the site on 22 November 2011.

This final report was prepared as part of the requirements of TDD No. TO-0001-11-10-02 and serves as documentation of work completed to date.

4. LIST OF ATTACHMENTS

- A. Site Location Map
- B. Site Area Map
- C. Site Plan
- D. START-3 Site Logbook
- E. Pollution Reports (POLREPs)
- F. Waste Manifests
- G. Digital Photographs
- H. NRC Report 992154
- I. TDD No. TO-0001-11-10-02 and Amendment A

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The EPA Task Monitor did not provide final approval of this report prior to the completion date of the work assignment. Therefore, Weston Solutions, Inc. has submitted this report absent the Task Monitor's approval.

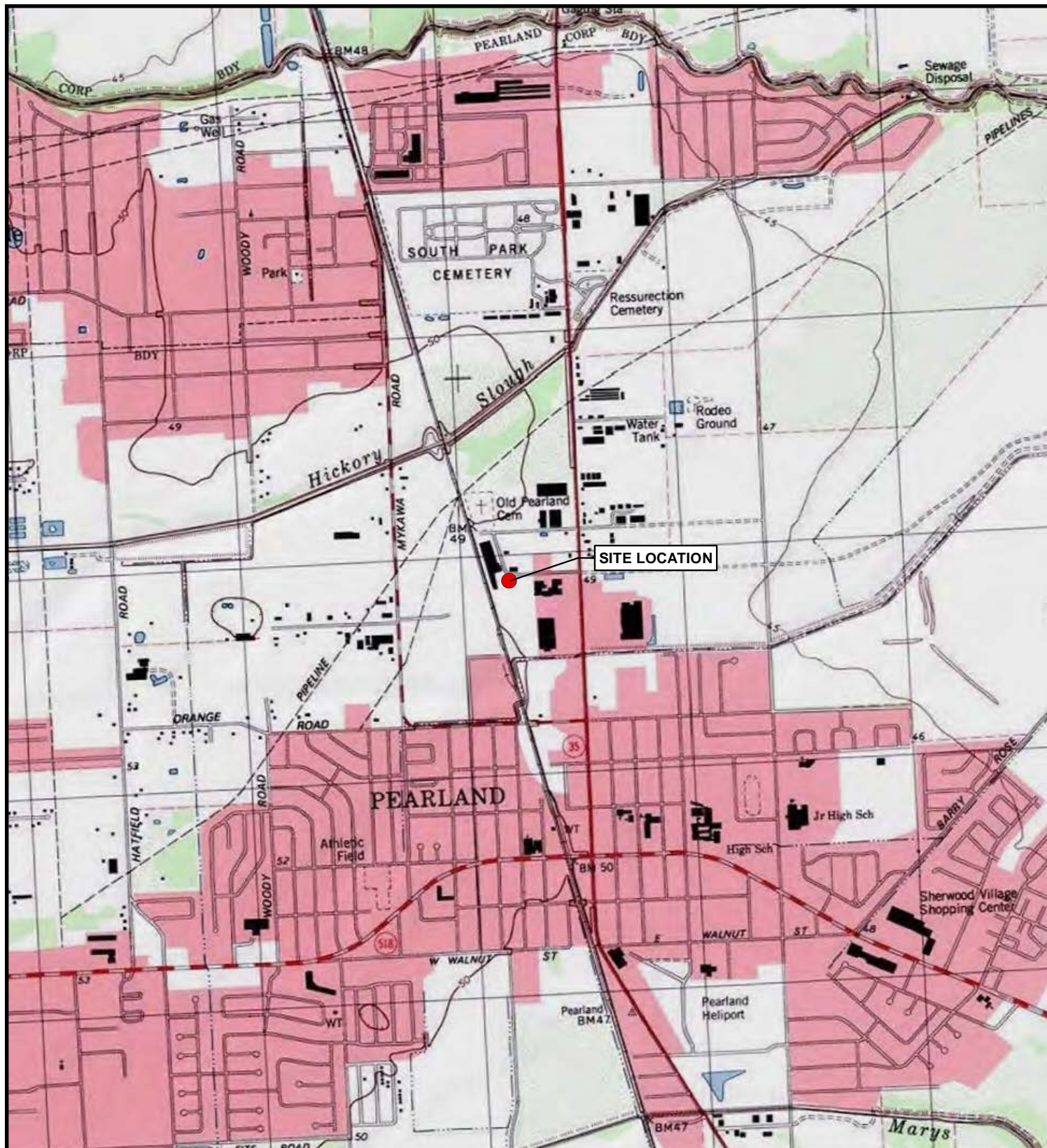
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The EPA Task Monitor has provided final approval of this report. Therefore, Weston Solutions, Inc. has submitted this report with the Task Monitor's approval.

ATTACHMENT A
SITE LOCATION MAP

ATTACHMENT B

SITE AREA MAP



LEGEND

● SITE LOCATION



NRC NO: 992154
TDD NO: TO-0001-11-10-02
CERCLIS NO: TXD0980750624

SOURCE: ESRI WORLD STREETMAP SERVICE



**US EPA REGION 6
START- 3**

**ATTACHMENT B
SITE AREA MAP
EMCHEM GLYCOL SPILL
4301 RICE DRIER RD
PEARLAND, BRAZORIA COUNTY, TEXAS**

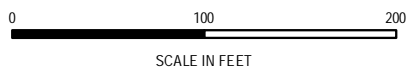
DATE OCT 2011	PROJECT NO 20406.012.001.0682.01	SCALE AS SHOWN
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ATTACHMENT C

SITE PLAN



RICE DRIER RD



LEGEND

- AREA OF RESPONSE ACTION
- PROPERTY BOUNDARY



US EPA REGION 6
START- 3

ATTACHMENT C
SITE PLAN
EMCHEM GLYCOL SPILL
4301 RICE DRIER RD
PEARLAND, BRAZORIA COUNTY, TEXAS

NRC NO: 992154
TDD NO: TO-0001-11-10-02
CERCLIS NO: TXD0980750624

SOURCE: ESRI WORLD STREETMAP SERVICE

DATE	PROJECT NO	SCALE
OCT 2011	20406.012.001.0682.01	AS SHOWN

ATTACHMENT H

NRC REPORT NO. 992154

NATIONAL RESPONSE CENTER 1-800-424-8802

*** For Public Use ***

Information released to a third party shall comply with any applicable federal and/or state Freedom of Information and Privacy Laws

Incident Report # 992154

INCIDENT DESCRIPTION

*Report taken at 23:49 on 10-OCT-11

Incident Type: STORAGE TANK

Incident Cause: EQUIPMENT FAILURE

Affected Area: DITCH

The incident was discovered on 10-OCT-11 at 16:30 local time.

Affected Medium: WATER DITCH

SUSPECTED RESPONSIBLE PARTY

XX

Type of Organization: UNKNOWN

INCIDENT LOCATION

4301 RICE DRIER RD County: BRAZORIA

City: PEARLAND State: TX

RELEASED MATERIAL(S)

CHRIS Code: TEG Official Material Name: TRIETHYLENE GLYCOL

Also Known As:

Qty Released: 3000 GALLON(S)

Qty in Water: 1500 GALLON(S)

DESCRIPTION OF INCIDENT

CALLER IS REPORTING A RELEASE OF TRIETHYLENE GLYCOL DUE TO A LEAKING VALVE AT A TANK FARM. THE SPILL IS ONGOING AT A RATE OF 2-3 GALLONS PER MINUTE. THERE ARE FOUR ABOVE GROUND STORAGE TANKS EACH WITH A VOLUME OF 18,000 GALLONS. CALLER STATED THAT DUE TO THE RECENT RAIN THE TANKS ARE ON SOFT GROUND AND LEANING AT ABOUT A SIX DEGREE ANGLE.

INCIDENT DETAILS

Description of Tank: STEEL TANK

Tank Above/Below Ground: ABOVE

Transportable Container: NO

Tank Regulated: UNKNOWN

Tank Regulated By:

Tank ID: NONE

Capacity of Tank:

Actual Amount:

---WATER INFORMATION---

Body of Water: DITCH

Tributary of: UNKNOWN

Nearest River Mile Marker:

Water Supply Contaminated: UNKNOWN

DAMAGES

Fire Involved: NO Fire Extinguished: UNKNOWN

INJURIES: NO Hospitalized: Empl/Crew: Passenger:

FATALITIES: NO Empl/Crew: Passenger: Occupant:

EVACUATIONS: NO Who Evacuated: Radius/Area:

Damages: NO

<u>Closure Type</u>	<u>Description of Closure</u>	<u>Length of Closure</u>	<u>Direction of Closure</u>
Air:	N		

Road: N

Major
Artery: N

Waterway: N

Track: N

Passengers Transferred: NO

Environmental Impact: UNKNOWN

Media Interest: NONE Community Impact due to Material:

REMEDIAL ACTIONS

DAMS HAVE BEEN PUT IN THE DITCH TO TRY TO CONTAIN THE SPILL.

Release Secured: UNKNOWN

Release Rate: 2-3 GALLON(S) per MINUTE

Estimated Release Duration:

WEATHER

Weather: CLEAR, 70°F

ADDITIONAL AGENCIES NOTIFIED

Federal: NONE

State/Local: TCEQ

State/Local On Scene: NONE

State Agency Number: 20113034

NOTIFICATIONS BY NRC

CALCASIEU PARISH SHERIFF'S DEPT (CRIMINAL INTELLIGENCE UNIT)

11-OCT-11 00:26

DHS NOC (NOC)

11-OCT-11 00:26

DHS PROTECTIVE SECURITY ADVISOR (PSA DESK)

11-OCT-11 00:26

DHS TEXAS FUSION CENTER (INTELLIGENCE OFFICERS)

11-OCT-11 00:26

DOT CRISIS MANAGEMENT CENTER (MAIN OFFICE)

11-OCT-11 00:26

U.S. EPA VI (MAIN OFFICE)

11-OCT-11 00:29

GULF STRIKE TEAM (MAIN OFFICE)

11-OCT-11 00:26

JFO-LA (COMMAND CENTER)

11-OCT-11 00:26

NATIONAL INFRASTRUCTURE COORD CTR (MAIN OFFICE)

11-OCT-11 00:26

NOAA RPTS FOR TX (MAIN OFFICE)

11-OCT-11 00:26

SECTOR HOUSTON-GALVESTON (COMMAND CENTER)

11-OCT-11 00:30

TCEQ (MAIN OFFICE)

11-OCT-11 00:26

TCEQ (REGION 12)

11-OCT-11 00:26

TX GENERAL LAND OFFICE (MAIN OFFICE)

11-OCT-11 00:26

TX GENERAL LAND OFFICE (TXGLO REGION 2)

11-OCT-11 00:26

TEXAS STATE OPERATIONS CENTER (COMMAND CENTER)

11-OCT-11 00:26

ADDITIONAL INFORMATION

NO ADDITIONAL INFORMATION.

*** END INCIDENT REPORT # 992154 ***

The National Response Center is strictly an initial report taking agency and does not participate in the investigation or incident response. The NRC receives initial reporting information only and notifies Federal and State On-Scene Coordinators for response. The NRC does not verify nor does it take follow-on incident information. Verification of data and incident response is the sole responsibility of Federal/State On-Scene Coordinators. Data contained within the FOIA Web Database is initial information only. All reports provided via this server are for informational purposes only. Data to be used in legal proceedings must be obtained via written correspondence from the NRC.